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Appln. No. 09/227,881**AMENDMENTS TO THE CLAIMS**

Please cancel claims 79-81, 92-96, 98-143, without prejudice or disclaimer to the subject matter disclosed therein, and enter new claims 144-174. Following entry of this amendment claims 1-143 will be cancelled and claims 144-174 will be pending.

1-143. (cancelled)

144. (new) A substantially purified nucleic acid comprising a nucleotide sequence selected from the group consisting of: fragments from about 15 to about 250 nucleotides in length of SEQ ID NO: 34.
145. (new) A substantially purified nucleic acid comprising the complement of a nucleotide sequence selected from the group consisting of: fragments from about 15 to about 250 nucleotides in length of SEQ ID NO: 34.
146. (new) A cell having an introduced nucleic acid comprising a nucleotide sequence selected from the group consisting of: a fragment of SEQ ID NO: 34 and a fragment of a complement of SEQ ID NO: 34, wherein said fragment is from about 15 to about 250 nucleotides in length.
147. (new) The cell of claim 146, wherein said nucleic acid is double stranded.
148. (new) The cell of claim 146, wherein said introduced nucleic acid is present in a vector.
149. (new) The cell of claim 148, wherein said vector is a plasmid vector.
150. (new) The cell of claim 148, wherein said introduced nucleic acid further comprises a TIGR protein coding sequence.
151. (new) A vector having a nucleic acid comprising a nucleotide sequence selected from the group consisting of: a fragment of SEQ ID NO: 34 and a fragment of a complement of SEQ ID NO: 34, wherein said fragment is from about 15 to about 250 nucleotides in length.
152. (new) The vector of claim 151, wherein said nucleic acid is double stranded.
153. (new) The vector of claim 151, wherein said vector is a plasmid vector.
154. (new) The vector of claim 151, wherein said nucleic acid further comprises a TIGR protein coding sequence.

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155. (new) A substantially purified nucleic acid comprising a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3, wherein said fragment is from about 15 to about 250 nucleotides in length.
156. (new) A substantially purified nucleic acid comprising the complement of a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3, wherein said fragment is from about 15 to about 250 nucleotides in length.
157. (new) A cell having an introduced nucleic acid comprising a nucleotide sequence selected from the group consisting of: a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3 and a complement of a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3, wherein said fragment is from about 15 to about 250 nucleotides in length.
158. (new) The cell of claim 157, wherein, said nucleic acid is double stranded.
159. (new) The cell of claim 157, wherein said introduced nucleic acid is present in a vector.
160. (new) The cell of claim 159, wherein said vector is a plasmid vector.
161. (new) The cell of claim 159, wherein said introduced nucleic acid further comprises a TIGR protein coding sequence.
162. (new) A vector having a nucleic acid comprising a nucleotide sequence selected from the group consisting of: a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3 and a complement of a fragment of nucleotides 1 through 5271 of SEQ ID NO: 3, wherein said fragment is from about 15 to about 250 nucleotides in length.
163. (new) The vector of claim 162, wherein said nucleic acid is double stranded.
164. (new) The vector of claim 162, wherein said vector is a plasmid vector.
165. (new) The vector of claim 162, wherein said nucleic acid further comprises a TIGR protein coding sequence.
166. (new) A substantially purified nucleic acid comprising the nucleotide sequence of SEQ ID NO: 34.
167. (new) A substantially purified nucleic acid comprising the complement of the nucleotide sequence of SEQ ID NO: 34.

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168. (new) A cell having an introduced nucleic acid, wherein said introduced nucleic acid comprises a nucleotide sequence selected from the group consisting of: SEQ ID NO: 34 and its complement.
169. (new) The cell of claim 168, wherein said introduced nucleic acid is present in a vector.
170. (new) The cell of claim 169, wherein said vector is a plasmid vector.
171. (new) The cell of claim 169, wherein said introduced nucleic acid further comprises a TIGR protein coding sequence.
172. (new) A vector comprising a nucleic acid, wherein said nucleic acid comprises a nucleotide sequence selected from the group consisting of: SEQ ID NO: 34 and its complement.
173. (new) The vector of claim 172, wherein said vector is a plasmid vector.
174. (new) The vector of claim 172, wherein said nucleic acid further comprises a TIGR protein coding sequence.